



Owner's manual & Installation manual

Mode d'emploi et manuel d'installation

Manual de usuario y Manual de instalación

CMS2

**MARINE DIGITAL MEDIA BLACK BOX WITH
WATERTIGHT CONTROLLER**

**BOÎTE NOIRE MARINE MULTIMÉDIA
NUMÉRIQUE AVEC CONTRÔLEUR ÉTANCHE**

**CAJA NEGRA DIGITAL MARINA
CON CONTROLADOR HERMÉTICO**

CLARION PRODUCT REGISTRATION INFORMATION

For USA and Canada only

www.clarion.com

Dear Customer:

Congratulations on your purchase of a Clarion mobile electronic product. We are confident that you'll enjoy your Clarion experience.

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We have made product registration simple with our easy to use website. The registration form is short and easy to complete. Once you're registered, we can keep you informed of important product information.

Register at **www.clarion.com**- it's easy to keep your Clarion product up to date.

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1. FEATURES

- SiriusXM-Ready™
- Weather Band Radio
- Watertight Controller
- Built-In Bluetooth®
- 50Wx4 Built-In Amplifier
- Compatible with iPod®/iPhone®

USB

Bluetooth®
MP3/WMA

 Made for
iPod iPhone

SiriusXM®
READY


2. PRECAUTIONS

⚠ WARNING

For your safety, while boating, keep the volume to a level at which external sounds can be heard.

1. This unit has precision parts inside. Even in the event that trouble arises, never open the case, disassemble the unit, or lubricate the parts.
2. FCC STATEMENT
 - 2.1 This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - (1) This device may not cause harmful interference.
 - (2) This device must accept any interference received, including interference that may cause undesired operation.
 - 2.2 Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body

3. IC warning

3.1 This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

3.2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

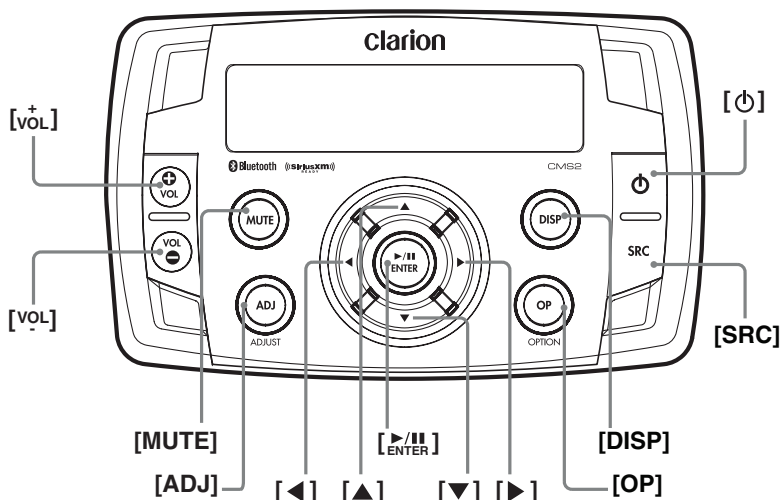
CE	MODEL	CMS2	clarion
USA: AM530-1710kHz, FM 87.9-107.9MHz EUROPE: AM531-1602kHz, FM87.5-108.0MHz AUSTRALIA: AM531-1620kHz, FM87.5-108.0MHz ASIA: AM531-1620kHz, FM87.5-108.0MHz			
12V (-) GROUND			
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.			
This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.			
CLARION CORPORATION OF AMERICA 6200 GATEWAY DRIVE, CYPRESS, CA 90630, USA			
MANUFACTURED:		FCC ID: AB75-CMS2	
MANUFACTURER: SMX		IC ID: 11888A-CMS2	
SERIAL NO.		CANICE S-3(*)/NM B-3(*)	
		MADE IN CHINA	

3. CAUTIONS ON HANDLING

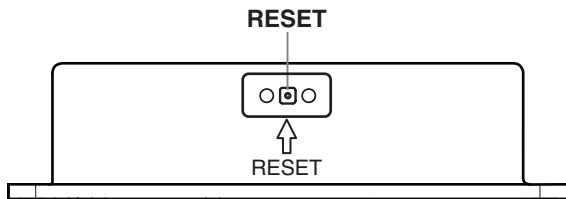
- Protect from high temperature. Expose to direct sunlight for an extended period of time can produce very high temperature in your vessel. Cool down the interior before starting the playback.

4. CONTROLS

◆ Display Controller



◆ Black Box Controller



About the registered marks, etc.

- Windows Media™ and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and / or other countries.
- “Made for iPod” and “Made for iPhone” mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. iPhone and iPod are trademarks of Apple Inc., registered in the U.S. and other countries.
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- Sirius, XM and all related marks and logos are trademarks of SiriusXM Radio Inc. All rights reserved.
- © 2013 CSR plc and its group companies. The aptX® mark and the aptX logo are trade marks of CSR plc or one of its group companies and may be registered in one or more jurisdictions.

Name of Buttons and their Functions

Note: Be sure to read this chapter while referring to the front diagram in chapter “4.CONTROLS”

◆ Display Controller

[] Power Button

- Press the button to turn power on or off.

[] [VOL+] Volume Button

- Press **VOL+** button to increase the volume.
- Press **VOL-** button to decrease the volume. The maximum volume level is “46”.

[MUTE] Button

- Press this button to mute the audio output.
- Press it again to unmute the audio output.

[SRC] Source Button

- Press **SRC** button to switch modes among FM, AM, Weather Band, SiriusXM, USB/iPod, AUX and BT Audio.

[DISP] Display Button

- Press **DISP** button to switch the display indication.
- Press and hold **DISP** button to turn off the screen.

[OP] Option Button

- Press **OP** button to access option menu items for necessary functions in every mode.
- In different modes, the option menu items are different. Please see the operation introduction of every mode for more details.

[] Play/Pause/Enter/SiriusXM Replay

- Press this button to Play or Pause.
- Press this button to confirm operating Tuner Mode, Weather Band Mode, SiriusXM mode, iPod/iPhone mode, USB mode and BT Audio mode.
- In SiriusXM play screen, press the Play/Pause button to enter Replay mode.
- While in SiriusXM Replay mode, press and hold the Play/Pause button for 3 seconds to exit the SiriusXM Replay mode.



[] Left Arrow / [] Right Arrow Buttons

- Use these buttons for tuning up and down in Tuner Mode, Weather Band Mode, SiriusXM mode, iPod/iPhone mode, USB mode and BT Audio mode.



[] Search Up / [] Search Down Buttons

- Use these buttons to recall the preset in Tuner Mode and Weather Band and SiriusXM Mode. Press and hold these buttons enter into Manual Store.
- In USB mode, use these buttons to select a folder.



[ADJ] Adjust Button

- Press **ADJ** to access the adjust menu. Press [ / ] repeatedly to select the item to be adjusted:



EQ

Press the [ / ] buttons to change EQ:
Flat->Jazz->Pop->Classic->Rock->News->Urban->Rave->Movie->Techno->User



Loud On/Off

Press the [ / ] buttons to select Loudness between ON and OFF.



Subwoofer On/Off

Press the [ / ] buttons to select Subwoofer between ON and OFF.



Subwoofer Gain

Press the [ / ] buttons to adjust the Subwoofer Gain range: 0 to 12



Subwoofer LPF

Press the [ / ] buttons to adjust the Subwoofer Low Pass Filter range: 80HZ/120HZ/180HZ



Bass Level

Press the [ / ] buttons to adjust the Bass level range: -12 to +12



Middle Level

Press the [ / ] buttons to adjust the Middle level range: -12 to +12



Treble Level

Press the [ / ] buttons to adjust the Treble level range: -12 to +12



Balance

Press the [ / ] buttons to adjust the Balance between the Left and Right speakers from L12 (full left) to R12 (full right).



Fader

Press the [ / ] buttons to adjust the Fader between the Rear and Front speakers from R12 (full rear) to F12 (full front).



AUX In Mid/Low/High

Press the [ / ] buttons to select the “Mid”, “Low” or “High”.



Contrast

Press the [ / ] buttons to see LCD contrast from 01-15. Default setting is 08.


Beep

Press the [ / ] buttons to select Beep tone between ON and OFF.

BT Disconnect/Connect


Press the [ / ] buttons to Disconnect and Connect the Bluetooth.

Area Mode


Press the [] button to select the suitable country area of the radio.

U.S.A->Europe->Asia->AUST (Australia)

Reset Setting

Press the [] button to restore the factory default settings.

About

Press the [] button to view the device hardware and software versions.

◆ Black Box

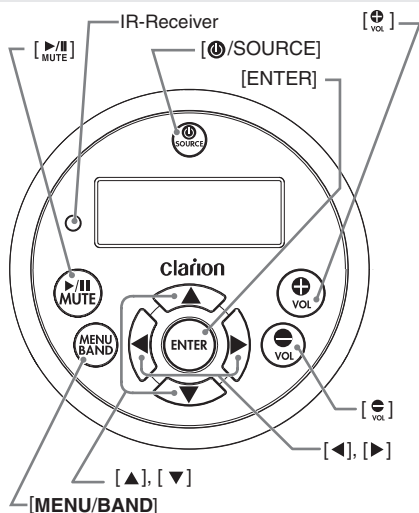
[RESET] Button

- Press **RESET** button with a ball point pin to:
 - Perform a complete system reset.
 - In the event that button do not respond or operate correctly.
 - When an Error Code or Message is displayed.

Optional Wired Remote Control Unit Operations

Following operations are enabled by remote control with the separately sold Wired Remote Control Unit MW1 (shown below), MW2 or MW4.

Note: If the remote control is connected with this unit while the power on, please restart this unit again to confirm the normal display.



CAUTION

Lower the volume level before powering the source unit off. The source unit stores the last volume setting.

WARNING

EXPOSING THE UNIT TO WATER WITH THE FRONT PANEL OPEN WILL CAUSE DAMAGE OR UNIT MALFUNCTION!

[● / SOURCE] Button

- Press the [● / SOURCE] button to turn the power on and press and hold it (1 sec.) to turn the power off.
- Each time the [● / SOURCE] button is pressed, the mode switches.

Note: If the above equipment is not connected, corresponding mode cannot be selected.

[ENTER] Button

- **AM/FM/Weather Band** mode – Confirm (in Preset and Manual store)
- **USB** mode – Confirm (in Menu/Search mode)
- **iPod/iPhone** mode – Confirm (in Menu/Search mode)
- **SiriusXM** mode – Confirm ch (in Search mode)
- **AUX In** mode – No function
- **BT Audio** mode – Confirm (in Menu/Search mode)

[▲] / [▼] Buttons

- Press the [▲] button to increase the volume.
- Press the [▼] button to decrease the volume.

[◀] / [▶] Buttons

- **ADJ/OP(Option)** mode – Adjust the current item
- **AM/FM/Weather Band** mode – Station Up/Down & Seek Up/Down (Press and hold)
- **USB** mode – Previous/Next track & Fast Forward / Reverse (Press and hold)
- **iPod/iPhone** mode – Previous/Next track & Fast Forward/Reverse (Press and hold)
- **AUX In** mode – No function
- **SiriusXM** mode – Channel Tune Up/Down, Fast Channel Tune Up/Down (Press and hold), Move cursor (Direct mode) & Enter the Parent Code Window
- **SiriusXM Replay** mode – Press and Release the Left or Right Arrow to skip back or forward one song/track. Press and Hold will Fast Forward/Fast Rewind through the Replay buffered content.
- **BT Audio** mode – Previous/Next track & Fast Forward/Reverse (Press and hold)

[▲] / [▼] Buttons

- **ADJ/OP(Option)** mode – Select the menu item
- **AM/FM/Weather Band** mode – Preset Station Up / Down & Enter into Manual Store (Press and hold)
- **USB** mode – Folder Up/Down & Select (in Folder search mode)
- **iPod/iPhone** mode – Select (in Menu mode)
- **AUX In** mode – No function
- **SiriusXM** mode – Preset channel Up/Down, Category Up/Down (in Category mode), Numeric Up/Down (Direct mode), input Parent code interface
- **BT Audio** mode – No function

[MENU/BAND] Buttons

- Press this button to access menu items for necessary functions in every mode.
- In different modes, the menu items are different. Please see the operation introduction of every mode for more details.

[MUTE] Buttons

- **AM/FM/Weather Band** mode - Mute On/Off
- **USB** mode – Play/Pause
- **iPod/iPhone** mode – Play/Pause
- **AUX In** mode – Mute On/Off
- **SiriusXM** mode – Replay Mode, Press and Hold for 3-seconds to exit Replay Mode.
- **BT Audio** mode – Play/Pause

5. OPERATIONS

Basic Operation

Note: Be sure to read this chapter referring chapter "4. CONTROLS"

⚠ CAUTION

When the unit is turned on, starting and stopping the engine with its volume raised to the maximum level it may cause hearing damage. Be careful about adjusting the volume.

◆ Turning on and off the power


Note:

- Start the engine before using this unit.
- Be careful about using this unit for a long time without running the engine. If you drain the vessel battery too far, you may not be able to start the engine and this can reduce the service life of the battery.

1. Start the engine. The power button / knob illumination on the unit will light up.



Engine ON position

2. Press the [] power button to turn On or Off the power.

◆ Selecting a mode

1. Press the [SRC] button to display source menu.
* External equipment not connected to this unit is not displayed.

◆ Adjusting the volume

1. Press VOL+ button to increase the volume.
2. Press VOL- button to decrease the volume.

⚠ CAUTION

While boating, please be aware of the volume levels in residential, family areas and local volume level ordinances.

◆ Mute

Press the [MUTE] button to turn the mute On and Off.

◆ Display OFF/ON

This feature will allow the user to turn the display OFF in the event the display is too bright in different lighting conditions.

To use this feature, please follow these steps:

1. To turn the display OFF, Press and release the Power Button and the display will turn OFF, but the audio from the current source will continue to play.
2. To turn the display ON, Press and release the Power Button and the display will turn back ON.

With the display OFF, the ability to change tracks and adjust volume will still remain.

Radio (AM/FM) Operation

◆ Select Tuner As Playing Source

Press the **[SRC]** Source button to select the AM/FM mode.

◆ World Tuner

This unit is initially set to USA frequency intervals of 10 kHz for AM and 200 kHz for FM. When using it outside the USA, the frequency reception range can be switched to the intervals below.

		U.S. A standard	Europe standard	Aisa standard	Australia standard
AM	Frequency spacing	10KHz	9KHz	9KHz	9KHz
	Frequency range	530-1710 KHz	531-1602 KHz	531-1620 KHz	531-1620 KHz
FM	Frequency spacing	200KHz	50KHz	50KHz	100KHz
	Frequency range	87.9-107.9 MHz	87.5-108 MHz	87.5-108 MHz	87.5-108 MHz

◆ [▶] Tuning Up / [◀] Tuning Down Buttons

1. Press the **[▶]** / **[◀]** button change intervals step by step.
2. Press and hold the **[▶]** / **[◀]** button to seek to the next strongest station.

◆ Recalling a Preset Station

A total of 10 preset positions (P1~P10) exists to store individual radio stations in memory.

Press **[▲]** / **[▼]** button to select the desired preset station.

◆ Presets

1. Select the desired station with seek tuning or manual tuning.
2. Press and hold the **[▲ / ▼]** button
3. Press the **[▲ / ▼]** button to select a preset number.
4. Press the **[ENTER]** button to store current station into preset memory.

◆ [OP] Options Button

During listening to the radio (AM/FM), press the **[OP]** Options Button to access the radio options.

Radio Mode Options:

→ Auto Store → LO/DX

Auto Store

Only stations with sufficient signal strength will be detected and stored in the memory.

1. Press the **[OP]** Options button.
2. Press the **[▲ / ▼]** button until "Auto Store" is displayed.
3. Press the **[ENTER]** button to start automatically select nine strong stations and store them into nine presets. The new stations replace any stations already stored in the band.

LO/DX

When LOCAL seeking is ON, only those radio stations with strong radio signal could be received.

1. Press the **[OP]** Options button.
2. Press the **[▲ / ▼]** button until "LO/DX" is displayed.
3. Press the **[◀ / ▶]** button to select local (**LO**) or distant (**DX**) mode.

Note: Press **[OP]** Option button to exit.

◆ Area Set

This option allows you to select the appropriate frequency spacing for your area.

1. Press the **[ADJ]** Adjust button.
2. Press the **[▲ / ▼]** button until "Area U.S.A" is displayed.
3. Press the **[◀ / ▶]** scroll through the Area options: "Area U.S.A", "Area Europe", "Area Asia", "Area AUST (Australia)"

Note: Default is USA frequency. Once the region is changed, all the stations in the preset memory will be erased.

Weather Band Operation

◆ [▶] Tuning Up / [◀] Tuning Down Buttons

1. Press the [▶] / [◀] button to change intervals step by step.
2. Press and hold the [▶] / [◀] button to seek to the next strongest station.

◆ Recalling a Preset Station

A total of 7 preset positions (WB1~WB7) exists to store individual weather band stations in memory. Press [▲] / [▼] button to select the desired preset weather band station to recall the stored frequency.

◆ Scan

During listening of the weather band, press the [OP] Options Button to access available options.

1. Press the [OP] Options button to select SCAN.
2. Press the [ENTER] button to start scanning available stations. Press again to stop.

Note: Only stations with acceptable reception will lock to SCAN. Scan time is approximately 10 seconds.

SiriusXM® Satellite Radio Operations

Only SiriusXM® brings you more of what you love to listen to, all in one place. Get over 140 channels, including commercial-free music plus the best sports, news, talk, comedy and entertainment. Welcome to the world of satellite radio. A SiriusXM Vehicle Tuner and Subscription are required. For more information, visit www.siriusxm.com

◆ Displaying the Radio ID

Before you listen to satellite radio, you must subscribe to the service using the SiriusXM Radio ID number.

1. Press **[SRC]** button to enter SiriusXM mode.
2. Press **[◀]** or **[▶]** to select channel "0".

The unit displays Radio ID.

Note:

1. The Radio ID is located on the bottom of the SiriusXM Connect Vehicle Tuner.
2. Please note that the SiriusXM Radio ID does not include the letters I, O, S or F.
3. Activate the SiriusXM Connect Vehicle Tuner using one of the two methods below:
 - Online: Go to "www.siriusxm.com/activatenow".
 - Phone: Call 1-866-635-2349.
 - To activate SiriusXM Canada service go to www.xmradio.ca and click on "ACTIVATE RADIO" in the top or call XM customer Care at 1-877-438-9677.

◆ Channel Up [▶] Down [◀] Operation

1. Press the **[▶]** Right Arrow to advance to the next channel.
Press the **[◀]** Left Arrow to go to previous channel.
2. Press and Hold in the **[▶]** Right Arrow to fast forward search channel.
Press and Hold in the **[◀]** Left Arrow to fast backward search channel.

◆ Recalling a Preset Station

1. Press the **[▲/▼]** button to enter into the Preset List.
2. Press the **[▲/▼]** button to select the desired Preset you wish to access.
3. Press the **[ENTER]** button to confirm tune to that channel.

Note: If no operation, after 3 seconds will return to the select Preset automatically.

◆ Presets

1. Press and hold the **[▲/▼]** button to enter into the Manual Store
2. Press the **[▲/▼]** button to select a preset number.
3. Press the **[ENTER]** button to store current channel into preset.

◆ [OP] Options Button

From the SiriusXM play screen, press the **[OP]** Options Button to access the SiriusXM options. SiriusXM Mode Options:



Replay

1. Press the **[OP]** Options button.
2. Press the **[▲/▼]** button until "Replay" is displayed.
3. Press and hold **[ENTER]** button for 3-seconds to exit the Replay mode.

Category Search

1. Press the **[OP]** Options button.
2. Press the **[▲/▼]** button until "Category SCH" is displayed.
3. Press the **[ENTER]** button to enter Category Search mode.
4. Press **[▲/▼]** button to scroll available categories.
5. Press **[◀/▶]** button to scroll channels with in the category.
6. Press the **[ENTER]** button to confirm to tune to that channel.

Direct Tune

1. Press the **[OP]** Options button.
2. Press the **[▲/▼]** button until "Direct Tune" is displayed.
3. Press the **[ENTER]** button to enter Direct Tune mode.
4. Press the **[◀/▶]** button to change the digit or **[▲/▼]** button to change the number.
5. Press the **[ENTER]** button to confirm channel number selection.

SiriusXM Satellite Radio Operations

Parental Controls

The SiriusXM Parental Control feature allows you with the ability to prevent unauthorized access to mature content channels. When enabled, the Parental Control feature requires you to enter a passcode to tune to the locked mature content channels. Information on setting up the passcode, setting up the mature content channels to be locked, and the method to access the locked channels is described below.

- For setting up the passcode, press the **[OP]** button and press the **[▲ / ▼]** button to select **"Parental"**. Press the **[ENTER]** button to change passcode. Enter old passcode, new passcode. To enter code, Press the **[▲ / ▼]** button to decide number and **[◀]** or **[▶]** to select digit. You after enter the passcode, you need to press the **[ENTER]** button to confirm passcode. The default passcode set for the Parental Lock is "1111". This can be changed, please refer to the Manage Passcode section.

Note: Press **[ADJ]** to access the adjust menu, press **[▲ / ▼]** to select the **[Reset]** mode, and then press **[ENTER]** to set the parent code to the factory default value.

- For setting up the mature content channels to be locked, press the **[OP]** button to enter into the option menu, press the **[▲ / ▼]** button to select the **Mature CH** and **[◀]** or **[▶]** to set **"L (Lock)"**. You will be asked to input passcode. Enter passcode and **"Successful"** will be displayed if it is successful. Please write down the new 4-digit passcode for future reference.
- For unlocking the mature content channels, press the **[OP]** button to enter into the option menu, press the **[▲ / ▼]** button to select the **Mature CH** and **[◀]** or **[▶]** to set **"U (Unlock)"**. You will be asked to input passcode. Enter the passcode and **"Successful"** will be displayed if it is successful.
- For accessing the mature content channels, select channel by **"Direct Tune"**. Press the **[OP]** button and select **"Direct Tune"** by pressing the **[ENTER]** button. Input desired mature content channels and input passcode, then you can tune to that mature content channels.

Note: Press **[OP]** Option button to exit .

◆ SiriusXM Replay™ function

The Replay feature allows you to pause,rewind, and replay of live SiriusXM Satellite Radio.

- While listening to a SiriusXM channel, press the **[ENTER]** button to enter Replay mode. The display will show "PAUSE" when entering this mode.
- Press and hold the **[ENTER]** button for 3-seconds to resume playback of the stored audio from the point at which it was paused. During playback,the SiriusXM Tuner will continue to store the channel audio until you exit the Replay mode.

During REPLAY playback

- Fast rewind: Press and hold **[◀]**.
- Fast forward: Press and hold **[▶]**.
- Returning to the beginning of the current song: Press **[◀]**. (If you press **[◀]** in the first 2 seconds of a song,you return to the beginning of the previous song.)
- Advancing to the beginning of the next song: press **[▶]**.
- Press and hold the **[ENTER]** button to exit Replay mode

Note:

- Press the **[OP]** Option button to enter into the Option Menu to select the Go-Live function and press the **[ENTER]** button, also can finish Replay mode.
- If you continue to press the **[▶]** button until the end,the Replay mode is canceled, and the unit will change to live SiriusXM radio mode.
- If you change channels while in Replay mode, the unit will exit Replay mode to live Satellite mode and clear the Replay memory.

◆ Changing the Display

Text information, such as the channel name,artist name, song title and content is available with each SiriusXM channel. The unit can display this text information as explained below:

In SiriusXM mode, press **[DISP]** button.Each time you press this button, the display changes as shown below:

Channel name =>Artist Name => Song Title=>

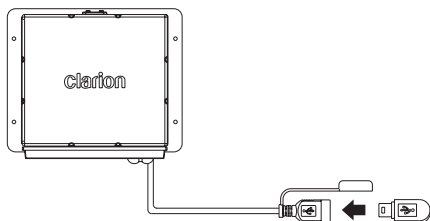
Content Info=> Category Name

Note: If there is no text information,nothing will be displayed.

USB Mode Operation

◆ Connect

1. Insert a USB device into the USB pigtail.
2. To remove the USB device, you should first select another source or turn off the power, in order to avoid damaging the USB device. Then take off the USB device.



◆ [▶] Right Arrow / [◀] Left Arrow Buttons

1. Press the [▶] Right Arrow to advance to the next track/song.
Press the [◀] Left Arrow to go to previous track/song.
2. Press and Hold in the [▶] Right Arrow to fast forward through the track/song.
Press and Hold in the [◀] Left Arrow to fast backward through the track/song.

◆ Play / Pause

Press the [⏸] button to pause the track/song that is currently playing.

Press the [▶] button to resume playing the track/song that has been paused.

◆ Folder Select

This function allows you to select a folder containing MP3/WMA files and start playing from the first track in the folder. Press the [▲ / ▼] button to select a folder.

◆ [DISP] Display Button

Press [DISP] button to check ID3 information.

◆ [OP] Options Button

From the USB device play screen, press the [OP] Options Button to access the USB device options. USB Mode Options:

Search Function

1. Press the [OP] Options button.
2. Press the [▲ / ▼] button until "Search Mode" appears on the display.
3. Press the [⏸] button to enter into the folder list.
4. Press the [▲ / ▼] button to select the a folder.
5. Press the [⏸] button to enter the file list search mode. And then the track list appears in the display.
6. Press the [▲ / ▼] button to select a track.
7. Press the [⏸] button to play.

Repeat Feature

This function allows you to Repeat All tracks/ songs, Repeat the currently playing track/song, or to turn the Repeat feature OFF.

1. Press the [OP] Options button.
2. Press the [▲ / ▼] button until "Repeat All" is displayed.
3. Press the [◀ / ▶] to scroll through the Repeat options: "Repeat All", "Repeat Song", "Repeat FLD"
4. When the Repeat option you would like to use appears on the display, Press the [⏸] button to select that Repeat option.

Random Feature

This function allows you to play tracks/songs from the current album, songs or artists in a random order.

1. Press the [OP] Options button.
2. Press the [▲ / ▼] button until "Random OFF" appears on the display.
3. Press the [◀ / ▶] to scroll through the Shuffle options. "Random OFF", or "Random ON"
4. When the Random option you would like to use appears on the display, Press the [⏸] button to select that Random option.

Intro Feature

This function allows you to play the first 10 seconds to each track on the device.

1. Press the [OP] Options button.
2. Press the [▲ / ▼] button until "Intro OFF" appears on the display.
3. Press the [◀ / ▶] to scroll through the Intro options. "Intro OFF", or "Intro ON"
4. When the Intro option you would like to use appears on the display, Press the [⏸] button to select that Intro option.

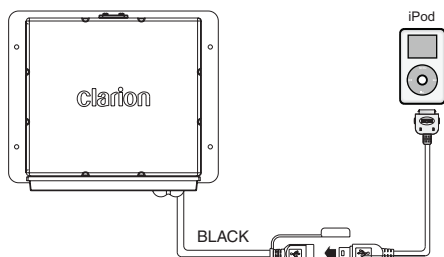
Note:

- Press [OP] Option button to exit .
- After 8 seconds of no action, you will return to the play screen for the current source in use.

iPod/iPhone Mode Operation

◆ Connect

Connect an iPod/iPhone to the USB pigtail using a iPod/iPhone USB Cable. When connecting a device, the unit will read the files automatically. The track information displays on the screen once playback start.



◆ Compatible iPod/iPhone

You can connect the following iPod/iPhone:

- iPod nano (6G)
- iPod nano (7G)
- iPod touch (3G)
- iPod touch (4G)
- iPod touch (5G)
- iPhone 3GS
- iPhone 4
- iPhone 4S
- iPhone 5
- iPhone 5C
- iPhone 5S

Minimum iOS 5.0 or higher

◆ [▶] Right Arrow / [◀] Left Arrow Buttons

1. Press the [▶] Right Arrow to advance to the next track/song.
Press the [◀] Left Arrow to go to previous track/song.
2. Press and Hold in the [▶] Right Arrow to fast forward through the track/song.
3. Press and Hold in the [◀] Left Arrow to fast backward through the track/song.

◆ Play / Pause

Press the [⏮] button to pause the track/song that is currently playing.

Press the [⏭] button to resume playing the track/song that has been paused.

◆ [DISP] Display Button

Press [DISP] button to check iPod information.

◆ [OP] Options Button

From the iPod/iPhone play screen, press the [OP] Options Button to access the iPod/iPhone options. iPod/iPhone Mode Options:

Search Function

1. Press the [OP] Options button.
2. Press the [▲ / ▼] button until "Search Mode" appears on the display.
3. Press the [⏮] button to enter into the Search mode.
4. Press the [▲ / ▼] button to select the among Playlist → Artists → Albums → Genres → Songs → Composers.
5. Press the [⏮] button to confirm selecting Playlists or Artists or Albums or Genres or Songs or Composers.
6. When display the desired Playlist or Artists or Album or Genre or Composer, press [⏮] then the Music file will be displayed.
7. Press the [▲ / ▼] button to select File.
8. Press the [⏮] button to confirm wanted File to play.

Repeat Feature

This function allows you to Repeat All tracks/ songs, Repeat the currently playing track/song, or to turn the Repeat feature OFF.

1. Press the [OP] Options button.
2. Press the [▲ / ▼] button until "Repeat All" is displayed.
3. Press the [◀ / ▶] to scroll through the Repeat options: "Repeat All", "Repeat Song", "Repeat OFF"
4. When the Repeat option you would like to use appears on the display, Press the [⏮] button to select that Repeat option.

Shuffle Feature

This function allows you to play tracks/songs from the current playlist, songs, genre or artists in a shuffle order.

1. Press the [OP] Options button.
2. Press the [▲ / ▼] button until "Shuffle OFF" appears on the display.
3. Press the [◀ / ▶] to scroll through the Shuffle options. "Shuffle OFF", or "Shuffle ON"
4. When the Shuffle option you would like to use appears on the display, Press the [⏮] button to select that Shuffle option.

iPod/iPhone Mode Operation

◆ Setting iPod Simple Control Mode

Use this function if you wish to operate through your iPod/iPhone connected to this unit via the USB Cable.

The factory default setting is OFF.

1. When in iPod/iPhone mode, Press the [OP] Options button.
2. Press the [▲ / ▼] button until “Simple Control” appears on the display.
3. Press the [◀ / ▶] to navigate through your iPod/iPhone Menu Options.
4. When “Simple Control” is displayed, press the [ENTER] button to turn the Simple Control ON or OFF.
 - ON: iPod/iPhone controls are made through your connected iPod/iPhone device.
 - OFF: iPod/iPhone controls cannot be made through your connected iPod/iPhone.

Note:

- When performing iPod/iPhone operations using Simple Control, make the operations slowly. If repetitive operations are performed too quickly, unforeseen errors may occur.
- When performing iPod/iPhone operations using Simple Control, please do not operate the iPod/iPhone and the unit at the same time, otherwise unexpected events may occur.
- Some iPod/iPhone models do not support this function. Please consult Clarion Customer Service or Clarion website to confirm which models are supported

AUX Operation

The AUX **RCA inputs** in this system **are** provided to allow playback of sounds and music from external devices connected to this unit.

Press the [SRC] button to select the “AUX In”.

◆ AUX Input sensitivity setting

Make the following settings to select the sensitivity when sounds from external devices connected to this unit are difficult to hear even after adjusting the volume.

1. Press the [ADJ] adjust button.
2. Press the [▲ / ▼] button until “Aux In Mid” is displayed.
3. Press the [◀ / ▶] button to select the “Mid”, “Low” or “High”.

Note: When AUX mode is selected, AUX IN sensitivity can be adjusted.

Bluetooth Operation

◆ Pairing the Bluetooth Device

1. From your Bluetooth enabled device, turn the Bluetooth ON and search for Bluetooth devices.
2. When a list of available Bluetooth devices appear on your Bluetooth device, select "Clarion".
3. "Successful" will appear on the CMS2 display.
4. The unit will automatically enter the BT Audio source and you can now start streaming audio from your Bluetooth enabled device.

Note: If the mobile phone doesn't support SSP (Simple Secure Pairing) Profile, please enter *the pass code of "0000"*.

◆ Disconnect / Re-Connect

1. Press the [ADJ] adjust button.
2. Press the [▲ / ▼] button until "BT Disconn" or "Connect" is displayed.
3. Press the [ENTER] button to confirm the selection.

◆ Audio Streaming Operations.

What is audio streaming?

Audio streaming is a technique for transferring audio data such that it can be processed as a steady and continuous stream. Users can stream music from their external audio player to their audio system wirelessly and listen to the tracks through the boat's speakers. Please consult your nearest Clarion dealer for more information on the product of wireless audio streaming transmitter offered.

⚠ CAUTION

Please avoid operating your connected mobile phone while audio streaming as this may cause noise or sound choppy on the song playback. Audio streaming may or may not resume after telephone interrupt as this is dependent on mobile phone.

◆ [OP] Options Button

From the BT Audio play screen, press the [OP] Options Button to access the BT Audio Options:

Search Function

1. Press the [OP] Options button.
2. Press the [▲ / ▼] button until "Search Mode" appears on the display.
3. Press the [ENTER] button to enter into the Search mode.
4. Press the [▲ / ▼] button to select the among Radio Playlist → Artists → Songs → Albums → Genres → Compilations → Composers.
5. Press the [ENTER] button to confirm selecting Radio or Playlists or Artists or Songs or Albums or Genres or Compilations or Composers.
6. When display the desired Radio or Playlist or Artists or Songs or Album or Genres or Compilations or Composers, press [ENTER] then the Music file will be displayed.
7. Press the [▲ / ▼] button to select File.
8. Press the [ENTER] button to confirm wanted File to play.

Note: The search feature requires the paired and connected device that the minimum Bluetooth AVRCP1.4 be incorporated to function.

◆ Repeat Feature

This function allows you to Repeat All tracks/songs, Repeat the currently playing track/song, or to turn the Repeat feature OFF.

1. Press the [OP] Options button.
2. Press the [▲ / ▼] button until "Repeat All" is displayed.
3. Press the [◀ / ▶] to scroll through the Repeat options: "Repeat All", "Repeat Song", "Repeat OFF"
4. When the Repeat option you would like to use appears on the display, Press the [ENTER] button to select that Repeat option.

Shuffle Feature

This function allows you to play tracks/songs from the current playlist, songs, genre or artists in a shuffle order.

1. Press the [OP] Options button.
2. Press the [▲ / ▼] button until "Shuffle OFF" appears on the display.
3. Press the [◀ / ▶] to scroll through the Shuffle options. "Shuffle OFF", or "Shuffle ON"
4. When the Shuffle option you would like to use appears on the display, Press the [ENTER] button to select that Shuffle option.

Note:

- Press [OP] Option button to exit .
- After 8 seconds of no action, you will return to the play screen for the current source in use.
- Repeat and Shuffle function may not work on all Bluetooth enabled devices.

◆ Play / Pause a track

Press the [ENTER] button to pause the track/song that is currently playing.

Press the [ENTER] button to resume playing the track/song that has been paused.

◆ [▶] Right Arrow / [◀] Left Arrow Buttons

1. Press the [▶] Right Arrow to advance to the next track/song.
Press the [◀] Left Arrow to go to previous track/song.
2. Press and Hold in the [▶] Right Arrow to fast forward through the track/song.
Press and Hold in the [◀] Left Arrow to fast backward through the track/song.

Note:

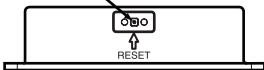
- Not all Bluetooth enabled devices will support the fast forward and fast backward function.
- Playing order will depend on BT Audio player. When [◀] button is pressed, some Bluetooth devices will restart the current track depends on the duration of playback. During music streaming playback, "BT Audio" will be shown on the display. When BT Audio device is disconnected, "BT Disconnect" will be shown on the display. Some Bluetooth audio players may not have play/pause synchronized with this unit. Please make sure both device and main unit are in the same play/pause status in BT Audio mode.

◆ ID3 Display

During music streaming playback, press [DISP] to view the ID3 display information: ALBUM->TITLE->ARTIST...

6. TROUBLESHOOTING

GENERAL

Problem	Cause	Measure
The unit will not power on	The vessel's accessory switch is not on	If the power supply is properly connected to the vessel's accessory terminal, switch the ignition key to "ACC"
No sound	Volume is set too low	Increase the volume to audible level
	Wiring is not properly connected	Correct wiring connections
The controller is not responding	The built-in internal processor is not operating properly	Press the RESET button with a ball point pen 
Auto seek function can not find any stations	The antenna cable is not connected	Insert the antenna cable securely
	The signals are too weak	Select a station manually

Bluetooth

Problem	Cause	Measure
Cannot pair the Bluetooth enabled device with the audio system.	The device does not support the profiles required for the system.	Use another device to connect.
	The Bluetooth function of the device is not enabled.	Refer to the user manual of the device for how to enable the function.
The audio quality is poor after connection with a Bluetooth-enabled device.	The Bluetooth reception is poor.	Move the device closer to the audio system or remove any obstacle between the device and the system.

SiriusXM Advisory Messages

Message	Description
CHEK TUNER	Check the SiriusXM tuner connection on the back of the unit to ensure that its correctly connected.
CHK ANTENA	Ensure the SiriusXM antenna cable is connected to the SiriusXM tuner correctly. Check the SiriusXM antenna wire for breaks or sharp bends. Replace the antenna if necessary. Press RESET located..... If the message remains, the antenna may have been damaged.
NO SIGNAL	The vehicle must be outside, and the antenna must have a clear view of the southern sky. The magnetic antenna must be mounted on the outside of the vehicle for the best reception.
CHAN UNSUB	This channel is not included in your SiriusXM subscription plan. Call 1-866-635-2349 to subscribe.
CH UNAVAIL	This channel is not a valid SiriusXM channel. The channel number has been entered incorrectly, or the channel was removed from the SiriusXM channel lineup
CH LOCKED	The selected channel has been locked by a mature channel has been selected. A prompt to enter the unlock code will appear.
SUBSCRIPTN UPDATED	An update to your SiriusXM subscription has been received by the SiriusXM tuner. Press any button to continue.

7. SPECIFICATIONS

FM Tuner

Frequency Range:	USA	87.9 - 107.9MHz
	Europe	87.5 - 108.0MHz
	Asia	87.5 - 108.0MHz
	Australia	87.5 - 108.0MHz

Usable Sensitivity: 4 V (S/N=30dB)

Image Rejection: >45dB

Stereo Separation: >25dB

AM Tuner

Frequency Range:	USA	530 - 1710KHz
	Europe	531 - 1602KHz
	Asia	531 - 1629KHz
	Australia	531 - 1629KHz

Usable Sensitivity: 40dB (S/N=20dB)

General

Power Supply Voltage: 14.4V DC (10.8 to 15.6V allowable)

Grounding System: Negative Ground

Speaker Impedance: 4-8 ohms per channel

Note: Specifications and design are subject to change without notice for further improvement.

Power Output:
20W × 4 RMS (4 Ω @ 14.4V
≤ 1% THD+N)
Signal to Noise Ratio:
74dB (reference: LPF 1 W
into 4 Ω)



Weather Band Selection

CH.1 162.400MHz CH.2 162.425MHz

CH.3 162.450MHz CH.4 162.475MHz

CH.5 162.500MHz CH.6 162.525MHz

CH.7 162.550MHz

Audio

Maximum Power Output: 50W x 4

Bass Control (60Hz): ± 12dB

Treble Control (10kHz): ± 12dB

Middle Control: (1kHz): ± 12dB

USB

USB: 2.0 High Speed

USB Port: 1.0A

USB Voltage: 5.0V

Maximum MP3/WMA Songs: 65535 Maximum

MP3/WMA Folder: 255

Maximum Songs per Folder: 65535 Maximum

USB Memory Size: 32G

USB Flash Drive and Hard FAT/FAT32

Drive Compatible Format:

Bluetooth

Specification: Bluetooth Version. 3.0+EDR
(Enhanced Data Rate)

Supported Profiles: A2DP (Advanced Audio
Distribution Profile)
AptX (CD Quality audio
bandwidth matching and
reproduced)
AVRCP 1.4 (Audio/Video
Remote Control Profile) SPP
(Serial Port Profile) SSP
(Simple Secure Pairing)

Send/Receive Sensitivity: Class 2

INSTALLATION AND WIRE CONNECTION

1. BEFORE STARTING

1. This set is exclusively for use in vessels with a negative ground 12 V power supply.
2. Read these instructions carefully.
3. Be sure to disconnect the battery “-” terminal before starting. This is to prevent short circuits during installation. (Figure 1)

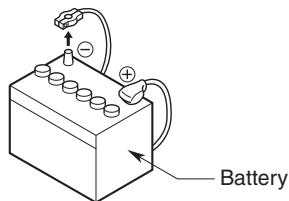


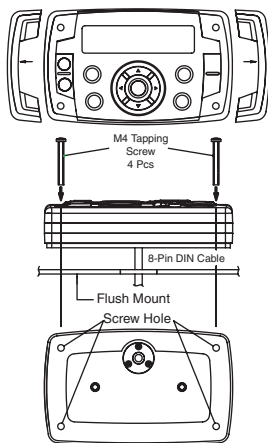
Figure 1

2. INSTALLATION CAUTIONS

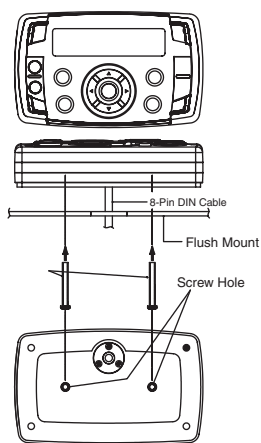
1. In order to avoid any interference, do not install the tuner module or control unit in the proximity of the engine compartment.
2. The use of unauthorized parts can cause permanent damage to the unit.
3. Always check your wire connections to ensure proper installation before turning on the unit.
4. Consult with your nearest dealer for proper installation or if common parts need to be used. Seek assistance if modifications or drilling holes to your vessel is needed.
5. Do not install the unit where it will be subjected to excessive moisture, dust, dirt, foreign particles or vibration. Areas of high temperature from the engine, direct sunlight, heater or hot air should also be avoided.
6. Do not install the unit in a location where it will interfere with the vessel operation, or it will injure the passengers if there is a sudden or emergency stop.

3. DISPLAY CONTROLLER INSTALLATION

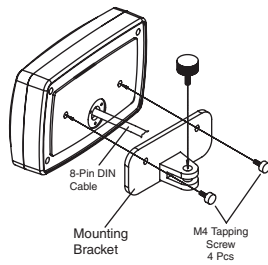
1. The control unit should be mounted to a dry, clean and flat surface. Ensure the rear gasket is fully sealed to the mounting surface without distorting the unit.
2. Select one of the three recommended methods that best fit your vessel.



Method 1



Method 2

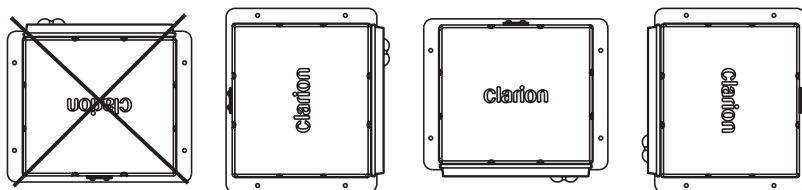


Method 3

This method requires the purchase of the optional BKU001 Gimbal mount accessory

4. BLACK BOX INSTALLATION

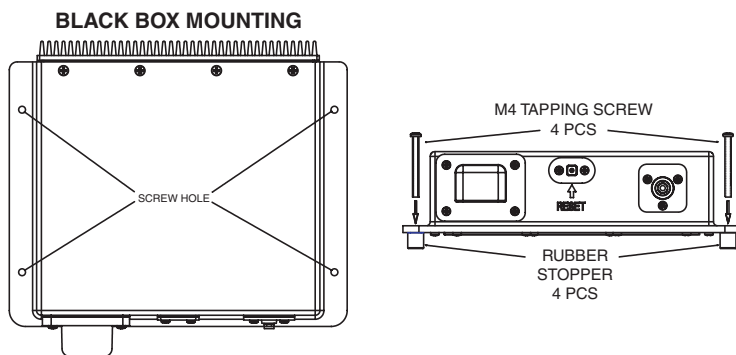
1. Select an area with sufficient ventilation for the mounting of the black box in order to prevent the module from overheating. You may mount the black box in a horizontal or vertical position. If the black box is mounted in a vertical position, do not mount the module with the harness exit points directly facing up to prevent water collecting in these areas.



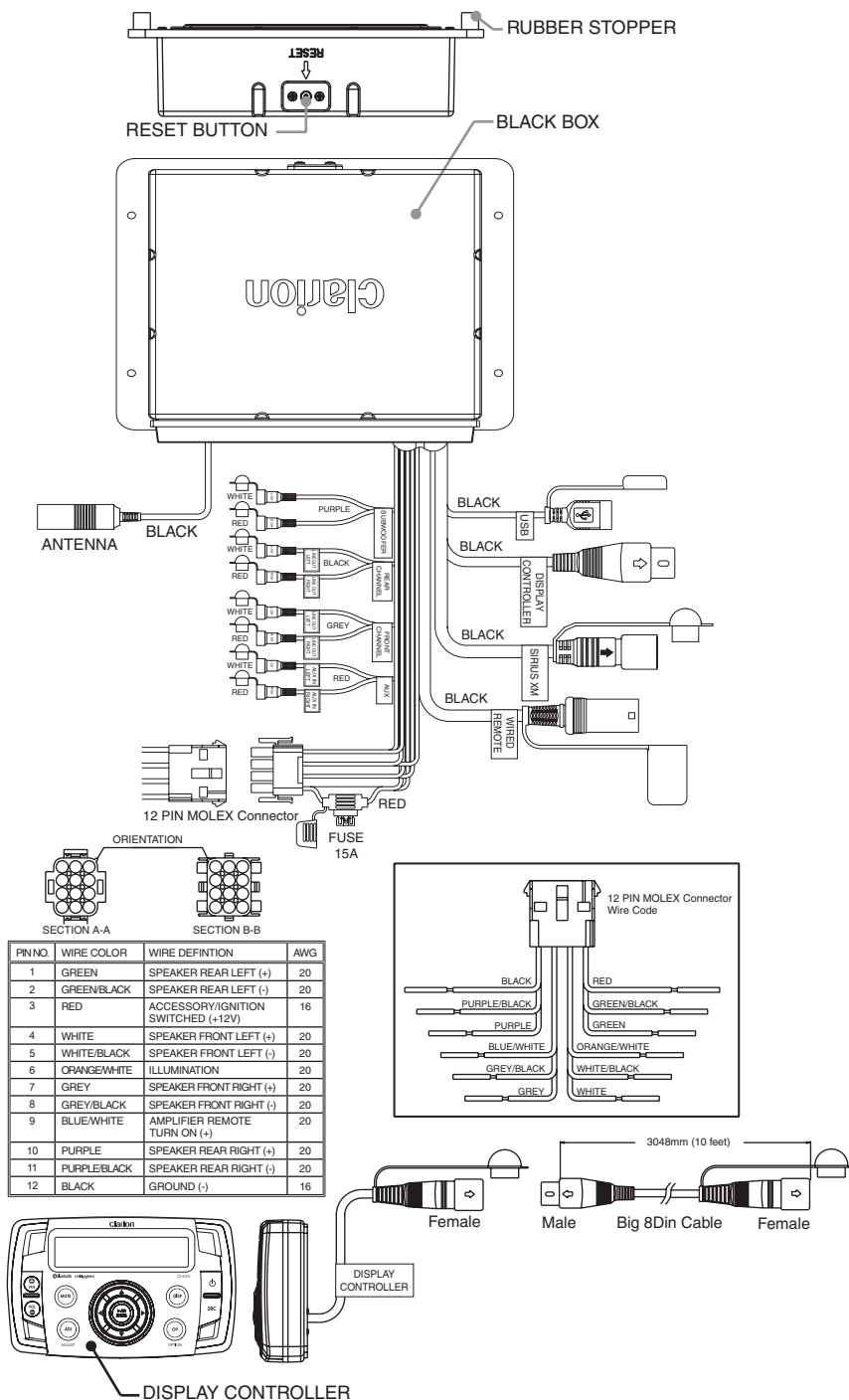
2. Please refer to the diagram below for the mounting screw hole positions. Always use the shortest length of screw possible.
3. During installation, use the 4 rubber mounting stoppers (included in the package) for the bottom of the module. This provides clearance from surface moisture and provides sufficient ventilation for the heat sink.
4. Extension wires/cables may be needed to route the harness and cable throughout the vessel.

Note: Retain some slack in the harness/ cables to prevent damage to the wires. It is recommended relieve stress in all cables and harnesses.

5. Always read through the wiring diagram in this manual first, and follow all the wiring diagrams carefully. The connections should be secured and insulated with crimp connectors or electrical tape to ensure proper connections.
6. Once the wiring connections are completed, connect the negative terminal on the battery, turn the vessel accessory ON and power on the unit to check if it is operating correctly. If abnormalities occur, disconnect the battery negative terminal, recheck all wiring and try again. Please refer to the troubleshooting section for assistance.



5. WIRE CONNECTION



Clarion Corporation of America

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